



## RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/621,741  
Source: OIP  
Date Processed by STIC: 8/5/2003

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebs/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry directly to:  
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7<sup>th</sup> Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202  
Or  
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 04/24/2003

# Raw Sequence Listing Error Summary

## ERROR DETECTED

## SUGGESTED CORRECTION

SERIAL NUMBER: 10/621,741

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1      Wrapped Nucleics  
    Wrapped Aminos      The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2      Invalid Line Length      The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3      Misaligned Amino  
    Numbering      The numbering under each 5<sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4      Non-ASCII      The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5      Variable Length      Sequence(s)      contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6      PatentIn 2.0  
    "bug"      A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s)     . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7      Skipped Sequences  
    (OLD RULES)      Sequence(s)      missing. If intentional, please insert the following lines for each skipped sequence:  
    (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
    (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
    This sequence is intentionally skipped  
  
    Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8      Skipped Sequences  
    (NEW RULES)      Sequence(s)      missing. If intentional, please insert the following lines for each skipped sequence.  
    <210> sequence id number  
    <400> sequence id number  
    000
- 9      Use of n's or Xaa's  
    (NEW RULES)      Use of n's and/or Xaa's have been detected in the Sequence Listing.  
    Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.  
    In <220> to <223> section, please explain location of n or Xaa; and which residue n or Xaa represents.
- 10      Invalid <213>  
    Response      Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11      Use of <220>      Sequence(s)      missing the <220> "Feature" and associated numeric identifiers and responses.  
    Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.  
    (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12      PatentIn 2.0  
    "bug"      Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13      Misuse of n      n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.



OIPE

## RAW SEQUENCE LISTING

DATE: 08/05/2003

PATENT APPLICATION: US/10/621,741

TIME: 14:22:32

Input Set : A:\5016 US Saxena 17 Jul 2003.txt

Output Set: N:\CRF4\08052003\J621741.raw

3 <110> APPLICANT: Saxena, Shailendra K.  
 5 <120> TITLE OF INVENTION: RIBONUCLEASES AND METHODS OF MAKING THEM  
 7 <130> FILE REFERENCE: 5016 US  
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/621,741  
 C--> 9 <141> CURRENT FILING DATE: 2003-07-17  
 9 <160> NUMBER OF SEQ ID NOS: 74  
 11 <170> SOFTWARE: PatentIn version 3.1  
 13 <210> SEQ ID NO: 1  
 14 <211> LENGTH: 114  
 15 <212> TYPE: PRT  
 16 <213> ORGANISM: Artificial  
 18 <220> FEATURE:  
 19 <223> OTHER INFORMATION: Recombinantly produced 2325p4 protein occurring naturally in  
 rana pipiens eggs and embryos.  
 22 <400> SEQUENCE: 1  
 24 Lys Pro Lys Glu Asp Arg Glu Trp Glu Lys Phe Lys Thr Lys His Ile  
 25 1 5 10 15  
 28 Thr Ser Gln Ser Val Ala Asp Phe Asn Cys Asn Arg Thr Met Asn Asp  
 29 20 25 30  
 32 Pro Ala Tyr Thr Pro Asp Gly Gln Cys Lys Pro Ile Asn Thr Phe Ile  
 33 35 40 45  
 36 His Ser Thr Thr Gly Pro Val Lys Glu Ile Cys Arg Arg Ala Thr Gly  
 37 50 55 60  
 40 Arg Val Asn Lys Ser Ser Thr Gln Gln Phe Thr Leu Thr Thr Cys Lys  
 41 65 70 75 80  
 44 Asn Pro Ile Arg Cys Lys Tyr Ser Gln Ser Asn Thr Thr Asn Phe Ile  
 45 85 90 95  
 48 Cys Ile Thr Cys Arg Asp Asn Tyr Pro Val His Phe Val Lys Thr Gly  
 49 100 105 110  
 52 Lys Cys  
 56 <210> SEQ ID NO: 2  
 57 <211> LENGTH: 342  
 58 <212> TYPE: DNA  
 59 <213> ORGANISM: Artificial  
 61 <220> FEATURE:  
 62 <223> OTHER INFORMATION: 2325p4 DNA occurring naturally in rana pipiens eggs and  
 embryos.  
 64 <400> SEQUENCE: 2  
 65 aaaccgaaag aagaccgtga atgggaaaaa ttcaaaacta aacatatcac ttctcagtct 60  
 67 gttgctgact tcaactgcaa ccgtactatg aacgaccggg cttacactcc ggacgggtcag 120  
 69 tgcaaaccga tcaacacttt catccattct actactggtc cgggttaaaga aatctgccgt 180  
 71 cgtgctactg gtcgtgttaa caaatcttct actcagcagt tcaactctgac tacttgcaaa 240  
 73 aaccgatcc gttgcaaata ctctcagtct aacactacta acttcatctg catcacttgc 300

*pp 3-6*  
 Does Not Comply  
 Corrected Diskette Needed

75 cgtgacaact acccggttca ttctgttaaa actggtaaatt gc

342

## RAW SEQUENCE LISTING

DATE: 08/05/2003

PATENT APPLICATION: US/10/621,741

TIME: 14:22:32

Input Set : A:\5016 US Saxena 17 Jul 2003.txt

Output Set: N:\CRF4\08052003\J621741.raw

78 <210> SEQ ID NO: 3  
 79 <211> LENGTH: 56  
 80 <212> TYPE: DNA  
 81 <213> ORGANISM: Artificial  
 83 <220> FEATURE:  
 84 <223> OTHER INFORMATION: SEQ ID NO:3 Contains XbaI restriction site.  
 86 <400> SEQUENCE: 3  
 87 taattttgtt taactttaag aaggagatat accatgaaac cgaaagaaga ccgtga 56  
 90 <210> SEQ ID NO: 4  
 91 <211> LENGTH: 63  
 92 <212> TYPE: DNA  
 93 <213> ORGANISM: Artificial  
 95 <220> FEATURE:  
 96 <223> OTHER INFORMATION: SEQ ID NO:4 Complementary to SEQ ID NO:3  
 98 <400> SEQUENCE: 4  
 99 ttccattca cggctcttctt tcggtttcat ggtatatctc ctcttaaag ttaaacaaaa 60  
 101 tta 63  
 104 <210> SEQ ID NO: 5  
 105 <211> LENGTH: 57  
 106 <212> TYPE: DNA  
 107 <213> ORGANISM: Artificial  
 109 <220> FEATURE:  
 110 <223> OTHER INFORMATION: SEQ ID NO:5  
 112 <400> SEQUENCE: 5  
 113 atgggaaaaa ttcaaaacta aacatatcac ttctcagtct gttgctgact tcaactg 57  
 116 <210> SEQ ID NO: 6  
 117 <211> LENGTH: 57  
 118 <212> TYPE: DNA  
 119 <213> ORGANISM: Artificial  
 121 <220> FEATURE:  
 122 <223> OTHER INFORMATION: SEQ ID NO:6 Complementary to SEQ ID NO:5  
 124 <400> SEQUENCE: 6  
 125 acggttgacg ttgaagtcag caacagactg agaagtgata tgtttagttt tgaattt 57  
 128 <210> SEQ ID NO: 7  
 129 <211> LENGTH: 60  
 130 <212> TYPE: DNA  
 131 <213> ORGANISM: Artificial  
 133 <220> FEATURE:  
 134 <223> OTHER INFORMATION: SEQ ID NO:7  
 136 <400> SEQUENCE: 7  
 137 caaccgtact atgaacgacc cggcttacac tccggacggt cagtgcacac cgatcaacac 60  
 140 <210> SEQ ID NO: 8  
 141 <211> LENGTH: 60  
 142 <212> TYPE: DNA  
 143 <213> ORGANISM: Artificial  
 145 <220> FEATURE:  
 146 <223> OTHER INFORMATION: SEQ ID NO:8 Complementary to SEQ ID NO:7  
 148 <400> SEQUENCE: 8  
 149 gatgaaagtg ttgatcggtt tgcactgacc gtccggagtg taagccgggt cgttcatagt 60

*no explanation of source of genetic material.*

*See item 11 on*

*Erra*

*63 summary sheet*

*? This does not explain (2137 response*

*57 see item 11*

*on Erra*

*summary sheet*

*see item 11*

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DATE: 08/05/2003

PATENT APPLICATION: US/10/621,741

TIME: 14:22:32

Input Set : A:\5016 US Saxena 17 Jul 2003.txt

Output Set: N:\CRF4\08052003\J621741.raw

152 <210> SEQ ID NO: 9  
153 <211> LENGTH: 52  
154 <212> TYPE: DNA  
155 <213> ORGANISM: Artificial  
157 <220> FEATURE:  
158 <223> OTHER INFORMATION: SEQ ID NO:9 *Item 11*  
160 <400> SEQUENCE: 9  
161 tttcatccat tctactactg gtccggttaa agaaatctgc cgtcgtgcta ct 52  
164 <210> SEQ ID NO: 10  
165 <211> LENGTH: 52  
166 <212> TYPE: DNA  
167 <213> ORGANISM: Artificial  
169 <220> FEATURE:  
170 <223> OTHER INFORMATION: SEQ ID NO:10 Complementary to SEQ ID NO:9  
172 <400> SEQUENCE: 10  
173 caccgaccagt agcaccgacg cagatttctt taaccggacc agtagtagaa tg 52  
176 <210> SEQ ID NO: 11  
177 <211> LENGTH: 54  
178 <212> TYPE: DNA  
179 <213> ORGANISM: Artificial  
181 <220> FEATURE:  
182 <223> OTHER INFORMATION: SEQ ID NO:11  
184 <400> SEQUENCE: 11  
185 ggtcgtgtta acaaattctt tactcagcag ttactctga ctacttgcaa aaac 54  
188 <210> SEQ ID NO: 12  
189 <211> LENGTH: 54  
190 <212> TYPE: DNA  
191 <213> ORGANISM: Artificial  
193 <220> FEATURE:  
194 <223> OTHER INFORMATION: SEQ ID NO:12 Complementary to SEQ ID NO:11  
196 <400> SEQUENCE: 12  
197 ggatcgggtt ttgcaagta gtcagagtga actgctgagt agaagattg ttaa 54  
200 <210> SEQ ID NO: 13  
201 <211> LENGTH: 57  
202 <212> TYPE: DNA  
203 <213> ORGANISM: Artificial  
205 <220> FEATURE:  
206 <223> OTHER INFORMATION: SEQ ID NO:13  
208 <400> SEQUENCE: 13  
209 ccgatccgtt gcaaatactc tcagtctaac actactaact tcacttgcat cacttgc 57  
212 <210> SEQ ID NO: 14  
213 <211> LENGTH: 57  
214 <212> TYPE: DNA  
215 <213> ORGANISM: Artificial  
217 <220> FEATURE:  
218 <223> OTHER INFORMATION: SEQ ID NO:14 Complementary to SEQ ID NO:13  
220 <400> SEQUENCE: 14  
221 tgtcacggca agtgatgcag atgaagttag tagtggttaga ctgagagtat ttgcaac 57  
224 <210> SEQ ID NO: 15

## RAW SEQUENCE LISTING

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Input Set : A:\5016 US Saxena 17 Jul 2003.txt

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225 <211> LENGTH: 60
226 <212> TYPE: DNA
227 <213> ORGANISM: Artificial
229 <220> FEATURE:
230 <223> OTHER INFORMATION: SEQ ID NO:15
232 <400> SEQUENCE: 15
233 cgtgacaact acccggttca ttctgttaaa actggtaa at gctagtaggg atccgcgcgg 60
236 <210> SEQ ID NO: 16
237 <211> LENGTH: 53
238 <212> TYPE: DNA
239 <213> ORGANISM: Artificial
241 <220> FEATURE:
242 <223> OTHER INFORMATION: SEQ ID NO:16 Complementary to SEQ ID NO:15
244 <400> SEQUENCE: 16
245 ccgcgcggat ccctactagc atttaccagt tttaacgaaa tgaaccgggt agt 53
248 <210> SEQ ID NO: 17
249 <211> LENGTH: 114
250 <212> TYPE: PRT
251 <213> ORGANISM: Artificial
253 <220> FEATURE:
254 <223> OTHER INFORMATION: Recombinantly produced 2325p6 protein occurring naturally in
rana
255 pipiens eggs and embryos.
257 <400> SEQUENCE: 17
259 Lys Pro Lys Glu Asp Lys Glu Trp Glu Lys Phe Lys Val Lys His Ile
260 1 5 10 15
263 Thr Ser Gln Ser Val Ala Asp Phe Asn Cys Thr Ser Thr Met Asn Asn
264 20 25 30
267 Pro Asp Phe Thr Pro Asp Gly Gln Cys Lys Pro Ile Asn Thr Phe Ile
268 35 40 45
271 His Ser Asn Thr Gly Pro Val Lys Glu Ile Cys Arg Arg Ala Ser Gly
272 50 55 60
275 Arg Val Asn Lys Ser Ser Thr Gln Gln Phe Pro Leu Thr Thr Cys Lys
276 65 70 75 80
279 Asn Pro Lys Arg Cys Lys Tyr Ser Gln Ser Asn Glu Thr Asn Tyr Ile
280 85 90 95
283 Cys Ile Thr Cys Arg Asp Asn Tyr Pro Val His Phe Val Lys Ile Gly
284 100 105 110
287 Lys Cys
291 <210> SEQ ID NO: 18
292 <211> LENGTH: 342
293 <212> TYPE: DNA
294 <213> ORGANISM: Artificial
296 <220> FEATURE:
297 <223> OTHER INFORMATION: 2325p6 DNA occurring naturally in rana pipiens eggs and
embryos.
299 <400> SEQUENCE: 18
300 aaaccgaaag aagacaaaga atgggaaaaa ttcaaagtta aacatatcac ttctcagtct 60
302 gttgctgact tcaactgcac ttctactatg aacaaccggg acttcactcc ggacggtcag 120
304 tgcaaaccga tcaaacattt catccattct aacactggtc cggttaaaga aatctgccgt 180
306 cgtgcttctg gtcgtgttaa caaatcttct actcagcagt tcccgtgac tacttgcaaa 240

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Input Set : A:\5016 US Saxena 17 Jul 2003.txt

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308 aacccgaaac gttgcaaata ctctcagtct aacgaaacta actacatctg catcacttgc 300  
310 cgtgacaact acccggttca ttctgttaaa atcggtaaat gc 342  
313 <210> SEQ ID NO: 19  
314 <211> LENGTH: 56  
315 <212> TYPE: DNA  
316 <213> ORGANISM: Artificial  
318 <220> FEATURE:  
319 <223> OTHER INFORMATION: SEQ ID NO:19  
321 <400> SEQUENCE: 19  
322 taattttggtt taactttaag aaggagatat accatgaaac cgaaagaaga caaaga 56  
325 <210> SEQ ID NO: 20  
326 <211> LENGTH: 63  
327 <212> TYPE: DNA  
328 <213> ORGANISM: Artificial  
330 <220> FEATURE:  
331 <223> OTHER INFORMATION: SEQ ID NO:20 Complementary to SEQ ID NO:19  
333 <400> SEQUENCE: 20  
334 ttccattctt ttgtcttctt tcggtttcat ggtatatctc cttcttaaag ttaaacaaaa 60  
336 tta 63  
339 <210> SEQ ID NO: 21  
340 <211> LENGTH: 57  
341 <212> TYPE: DNA  
342 <213> ORGANISM: Artificial  
344 <220> FEATURE:  
345 <223> OTHER INFORMATION: SEQ ID NO:21  
347 <400> SEQUENCE: 21  
348 atgggaaaaa ttcaaagtta aacatatcac ttctcagtct gttgctgact tcaactg 57  
351 <210> SEQ ID NO: 22  
352 <211> LENGTH: 57  
353 <212> TYPE: DNA  
354 <213> ORGANISM: Artificial  
356 <220> FEATURE:  
357 <223> OTHER INFORMATION: SEQ ID NO:22 Complementary to SEQ ID NO:21  
359 <400> SEQUENCE: 22  
360 agaagtgcag ttgaagtcag caacagactg agaagtgata tgtttaactt tgaattt 57  
363 <210> SEQ ID NO: 23  
364 <211> LENGTH: 60  
365 <212> TYPE: DNA  
366 <213> ORGANISM: Artificial  
368 <220> FEATURE:  
369 <223> OTHER INFORMATION: SEQ ID NO:23  
371 <400> SEQUENCE: 23  
372 cacttctact atgaacaacc cggacttcac tccggacggt cagtgcaaac cgatcaacac 60  
375 <210> SEQ ID NO: 24  
376 <211> LENGTH: 60  
377 <212> TYPE: DNA  
378 <213> ORGANISM: Artificial  
380 <220> FEATURE:  
381 <223> OTHER INFORMATION: SEQ ID NO:24 Complementary to SEQ ID NO:23

Please correct these types of errors in  
subsequent sequences



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Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,  
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27

Seq#:28,29,30,31,32,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52

Seq#:53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68,69,70,71,72,73,74

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/621,741

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Input Set : A:\5016 US Saxena 17 Jul 2003.txt

Output Set: N:\CRF4\08052003\J621741.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No

L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date